

Amendments to the Claims:

1. (Currently Amended) A method comprising:
providing a plurality of security policies, wherein each security policy includes an application instance identifier associated with a security service, at least two application instance identifiers being associated with different security services that operate according to different protocols at different layers of a multi-layered protocol stack; and
creating at least one security association, wherein the at least one security association is created based upon at least one security service associated with at least one application instance identifier to thereby create a centralized key store including the plurality of security policies and the at least one security association.
2. (Previously Presented) A method according to Claim 1 further comprising:
receiving at least one packet of data; and
applying the security service associated with an identified application instance identifier to the at least one packet of data to thereby transform the at least one packet of data, wherein the security service is applied to the at least one packet based upon at least one security policy and at least one security association.
3. (Previously Presented) A method according to Claim 2 further comprising:
receiving the at least one transformed packet of data; and
applying the security service associated with the identified application instance identifier to the at least one transformed packet of data to thereby generate a representation of the at least one packet of data, wherein the security service is applied to the transformed at least one packet based upon at least one security association.
4. (Previously Presented) A method according to Claim 2, wherein providing a plurality of security policies comprises providing at least one security policy further including at least one selector field having at least one selector value in a format common to a plurality of

security service protocols, and wherein applying the security service comprises applying the security service further based upon the at least one security policy including the at least one selector value.

5. (Original) A method according to Claim 1, wherein creating at least one security association comprises creating at least one security association according to an Internet Key Exchange (IKE) technique.

6. (Currently Amended) A system-An apparatus comprising:
a first security gateway processor configured to provide a plurality of security policies, wherein each security policy includes an application instance identifier associated with a security service, at least two application instance identifiers being associated with different security services that operate according to different protocols at different layers of a multi-layered protocol stack, wherein the first security gateway processor is configured to apply a security service associated with an identified application instance identifier to at least one packet of data to thereby transform the at least one packet of data, wherein the first security gateway processor is configured to apply the security service to the at least one packet based upon at least one security policy and at least one security association; and
wherein the processor is configured to relay the at least one transformed packet to a second security gateway configured to apply the security service associated with the identified application instance identifier to the at least one transformed packet of data to thereby generate a representation of the at least one packet of data.

7. (Currently Amended) A system-An apparatus according to Claim 6, wherein the first security gateway processor is also configured to create at least one security association, and wherein the first security gateway processor is configured to create the at least one security association based upon at least one security service associated with at least one application instance identifier to thereby create a centralized key store including the plurality of security policies and the at least one security association.

8. (Currently Amended) ~~A system-An apparatus~~ according to Claim 6, wherein the ~~first security gateway processor~~ is configured to provide at least one security policy further including at least one selector field having at least one selector value in a format common to a plurality of security service protocols, and wherein the ~~first security gateway processor~~ is configured to apply the security service further based upon the at least one security policy including the at least one selector value.

9. (Currently Amended) ~~A system-An apparatus~~ according to Claim 6, wherein the ~~processor is configured to relay the at least one transformed packet to a second security gateway~~ is-configured to receive the at least one transformed packet of data from the ~~first security gateway processor~~, and thereafter apply the security service to the transformed at least one packet based upon the at least one security association.

10. (Currently Amended) ~~A system-An apparatus~~ according to Claim 6, wherein the ~~first security gateway processor~~ is configured to create at least one security association according to an Internet Key Exchange (IKE) technique.

11. (Currently Amended) ~~A security gateway-An apparatus~~ comprising:
a security policy database configured to store a plurality of security policies, wherein each security policy includes an application instance identifier associated with a security service, at least two application instance identifiers being associated with different security services that operate according to different protocols ~~at different layers of a multi-layered protocol stack;~~
a security association database configured to store at least one security association; and
a processor configured to create at least one security association based upon at least one security service associated with at least one application instance identifier to thereby create a centralized key store including the plurality of security policies and the at least one security association.

12. (Currently Amended) A security gateway An apparatus according to Claim 11, wherein the processor is configured to receive at least one packet of data, and thereafter apply the security service associated with an identified application instance identifier to the at least one packet of data to thereby transform the at least one packet of data, and wherein the processor is configured to apply the security service to the at least one packet based upon at least one security policy and at least one security association.

13. (Currently Amended) A security gateway An apparatus according to Claim 12, wherein the security policy database is configured to store at least one security policy further including at least one selector field having at least one selector value in a format common to a plurality of security service protocols, and wherein the processor is configured to apply the security service further based upon the at least one security policy including the at least one selector value.

14. (Currently Amended) A security gateway An apparatus according to Claim 11, wherein the processor is also configured to receive at least one transformed packet of data, and thereafter apply the security service associated with an identified application instance identifier to the at least one transformed packet of data to thereby generate a representation of the at least one packet of data, and wherein the processor is configured to apply the security service to the transformed at least one packet based upon at least one security association.

15. (Currently Amended) A security gateway An apparatus according to Claim 11, wherein the processor is configured to create at least one security association according to an Internet Key Exchange (IKE) technique.

16. (Currently Amended) A computer program product comprising a computer-readable storage medium having computer-readable program code portions stored therein, the computer-readable program portions comprising:

a first executable portion configured to provide a plurality of security policies, wherein

each security policy includes an application instance identifier associated with a security service, at least two application instance identifiers being associated with different security services that operate according to different protocols at different layers of a multi-layered protocol stack; and

a second executable portion configured to create at least one security association, wherein the at least one security association is created based upon at least one security service associated with at least one application instance identifier to thereby create a centralized key store including the plurality of security policies and the at least one security association.

17. (Previously Presented) A computer program product according to Claim 16 further comprising:

a third executable portion configured to receive at least one packet of data; and

a fourth executable portion configured to apply the security service associated with an identified application instance identifier to the at least one packet of data to thereby transform the at least one packet of data, wherein the security service is applied to the at least one packet based upon the at least one security policy and the at least one security association.

18. (Previously Presented) A computer program product according to Claim 17, wherein the first executable portion is configured to provide at least one security policy further including at least one selector field having at least one selector value in a format common to a plurality of security service protocols, and wherein the fourth executable portion is configured to apply the security service further based upon the at least one security policy including the at least one selector value.

19. (Previously Presented) A computer program product according to Claim 16 further comprising:

a third executable portion configured to receive at least one transformed packet of data; and

a fourth executable portion configured to apply the security service associated with an identified application instance identifier to the at least one transformed packet of data to thereby

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generate a representation of the at least one packet of data, wherein the security service is applied to the transformed at least one packet based upon the at least one security association.

20. (Previously Presented) A computer program product according to Claim 16, wherein the second executable portion is configured to create at least one security association according to an Internet Key Exchange (IKE) technique.